

Sheet 1 of 4

Form PTO-1449 U.S. Department of Commerce
(Rev. 8-83) Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.: 0756-2119

Serial No. 09/550,598

Applicants: Hisashi OHTANI, et al.

Filing Date: April 17, 2000

Group: Unknown

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
PC	3,982,820	09/28/76	Hattori et al.			
PC	4,640,583	02/03/87	Hoshikawa et al.			
PC	4,796,979	01/10/89	Tsuboyama			
PC	4,911,958	03/27/90	Mochizaki et al.			
PC	4,932,757	06/12/90	Hanyu et al.			
PC	5,083,855	01/28/92	Clark et al.			
PC	5,117,299	05/26/92	Kondo et al.			
PC	5,132,676	07/21/92	Kimura et al.			
PC	5,189,540	02/23/93	Nakamura et al.			
PC	5,212,575	05/18/93	Kojima et al.			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
PC	6-40931	05/31/94	Japan			Abstract	
PC	2-503360	10/11/90	Japan			Abstract	
PC	9-211462	08/15/97	Japan			Abstract	
PC	7-13143	01/17/95	Japan			Abstract	
PC	6-331948	12/02/94	Japan			Abstract	
PC	6-347807	12/22/94	Japan			Abstract	
PC	6-337418	12/06/94	Japan			Abstract	

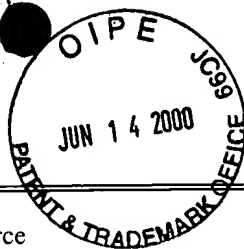
OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication)

PC	A.D.L. Chandani, et al., "ANTIFERROELECTRIC CHIRAL SMECTIC PHASES RESPONSIBLE FOR THE TRISTABLE SWITCHING IN MHPOBC," Tokyo Inst. Of Tech., June 12, 1989, pp. 34-37.
PC	Michio Shimizu, et al., "CHARACTERISTIC OF A NOVEL LIQUID CRYSTAL CELL WITH MIXTURE OF FLC AND U.V. CURABLE RESIN," Mol. Cryst. Liq. Cryst., Overseas Publishers Association, Vol. 263, 1995, pp. 585-587.

Examiner PHAT X. CAO

Date Considered 4/30/01

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PC	5,227,900	07/13/93	Inaba et al.			
PC	5,240,801	08/31/93	Hayashi et al.			
PC	5,305,126	04/19/94	Xobayashi et al.			
PC	5,327,271	07/05/94	Takeuchi et al.			
PC	5,330,616	07/19/94	Yamazaki			
PC	5,332,521	07/26/94	Yuasa et al.			
PC	5,339,306	08/16/94	Yoshinaga et al.			
PC	5,412,494	05/02/95	Ishiwata et al.			
PC	5,469,281	11/21/95	Katakura et al.			
PC	5,473,449	12/05/95	Takemura et al.			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
PC	6-337405	12/06/94	Japan			Abstract	
PC	6-301039	10/28/94	Japan			Abstract	
PC	6-301015	10/28/94	Japan			Abstract	
PC	6-289372	10/18/94	Japan			Abstract	
PC	6-242409	09/02/94	Japan			Abstract	
PC	6-214218	08/05/94	Japan			Abstract	
PC	6-186533	07/08/94	Japan			Abstract	

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Sheet 3 of 4

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Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
PC	5,389,287	02/14/95	Nishiyama et al.			
PC	5,739,882	04/14/98	Shimizu et al.			
PC	5,552,913	09/03/96	Shimizu et al.			
PC	5,638,194	06/10/97	Yamada et al.			
PC	5,473,450	12/05/95	Yamada et al.			
PC	5,541,747	07/30/96	Nishi et al.			
PC	5,354,497	10/11/94	Fukuchi et al.			
PC	5,270,846	12/14/93	Watanabe et al.			
PC	5,594,569	01/14/97	Konuma et al.			

FOREIGN PATENT DOCUMENTS

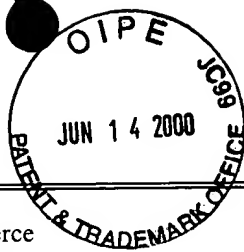
	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
PC	6-160824	06/07/94	Japan			Abstract	
PC	6-160812	06/07/94	Japan			Abstract	
PC	5-297364	11/12/93	Japan			Abstract	
PC	5-045636	02/26/93	Japan			Abstract	
PC	4-362918	12/15/92	Japan			Abstract	
PC	4-243228	08/31/92	Japan			Abstract	
PC	4-136814	05/11/92	Japan			Abstract	

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PC	5,546,208	08/13/96	Shimizu et al.			
PC	5,583,369	12/10/96	Yamazaki et al.			
PC	5,490,001	02/06/96	Konuma			
PC	5,528,401	06/18/96	Narutaki et al.			
PC	5,530,573	06/25/96	Shimada			
PC	5,592,318	01/07/97	Majima et al.			
PC	5,946,561	08/31/99	Yamazaki et al.			
PC	5,949,107	09/07/99	Zhang			
PC	6,037,197	03/14/00	Yamazaki et al.			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
PC	62-7022	01/14/87	Japan			Abstract	
PC	63-198024	08/16/88	Japan			Abstract	
PC	64-55527	03/02/89	Japan			Abstract	
PC	01-120532	05/12/89	Japan			Abstract	
PC	2-137819	05/28/90	Japan			Abstract	
PC	0 404 575	12/27/90	EPO			English	
PC	WO 88/08552	11/03/88	WIPO			English	

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